RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/537,864_

Source: _PCT_

Date Processed by STIC: _06/16/2005_

ENTERED

PCT

RAW SEQUENCE LISTING   DATE: 06/16/2005
PATENT APPLICATION: US/10/537,864   TIME: 10:19:55

Input Set : **A:\AH01646Ka.ST25.txt**
Output Set: **N:\CRF4\06162005\J537864.raw**

```
   3 <110> APPLICANT: Mattson, Jeanine
   4        McClanahan, Terrill
   6 <120> TITLE OF INVENTION: Canine RANKL and Methods for Preparing and Using the Same
   8 <130> FILE REFERENCE: AH01646PK
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/537,864
C--> 11 <141> CURRENT FILING DATE: 2005-06-07
  13 <150> PRIOR APPLICATION NUMBER: US60/432092
  14 <151> PRIOR FILING DATE: 2002-12-10
  16 <160> NUMBER OF SEQ ID NOS: 15
  18 <170> SOFTWARE: PatentIn version 3.1
  20 <210> SEQ ID NO: 1
  21 <211> LENGTH: 989
  22 <212> TYPE: DNA
  23 <213> ORGANISM: Artificial Sequence
  25 <220> FEATURE:
  26 <223> OTHER INFORMATION: artificial sequence for canine RANK ligand
  28 <220> FEATURE:
  29 <221> NAME/KEY: misc_feature
  30 <222> LOCATION: (1)..(21)
  31 <223> OTHER INFORMATION: human primer sequence
  34 <220> FEATURE:
  35 <221> NAME/KEY: misc_feature
  36 <222> LOCATION: (865)..(867)
  37 <223> OTHER INFORMATION: stop codon
  40 <400> SEQUENCE: 1
  41 ccatgcgccg cgccagcaga gactacagca agtacctgcg ccgcctcccg ctccgtggcc    60
  43 gtggccttcc tggggctggg gctgggccag gtggtctgca gcgtcgccct gttcctctac   120
  45 ttcagggctc agatggatcc taatagaata tcagaagatg acactcactg cattaataga   180
  47 attttcaaac tccatgaaaa tgcagatttg caagacacaa ctctggagaa tcaagacaca   240
  49 aaattaatac ctgattcgtg taagagcatt aagcaggcct ccgagccgc cgtacaaaag   300
  51 gaattacaac atattgttag atcacaacac atcagagcag aaaaagctat gatggaaggt   360
  53 tcatggttgg aaatggccag gaggggcaag actcatactc aaccttttgc tcatctcact   420
  55 atcaatgcca ctgacatccc atctggttcc cacaaagtga gtctgtcctc ctggtaccat   480
  57 gaccgaggtt gggccaagat ctccaacatg actttcagca atgggaaact aatagttaac   540
  59 caagatggct tttatttcct gtacgccaac atttgcttta gacatcatga aacttcagga   600
  61 gacctcgcca cagagtatct tcagctgatg gtgtatgtca ctaaaaccag catcaaaatc   660
  63 ccgagttctc atacactgat gaaaggaggt agcaccaaat actggtcagg gaattctgaa   720
  65 ttccattttt attccataaa cgttggagga tttttaagc tacgatctgg tgaggaaata   780
  67 agcatcgagg tatccaaccc atcactactg gacccagatc aagatgcaac atactttggg   840
  69 gcttttaagg ttctagatat agattgagtc ccattttatg gagtgttatt ctgtatttcc   900
  71 gaggatgtat ggaaaatttt tttaaacaag gcaagaaaga tgtatataga tgtgagacta   960
  73 ctaaggggta tgacccacaa tgatacaag                                     989
  76 <210> SEQ ID NO: 2
```

RAW SEQUENCE LISTING   DATE: 06/16/2005
PATENT APPLICATION: US/10/537,864   TIME: 10:19:55

Input Set : A:\AH01646Ka.ST25.txt
Output Set: N:\CRF4\06162005\J537864.raw

```
77 <211> LENGTH: 275
78 <212> TYPE: PRT
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <223> OTHER INFORMATION: artificial sequence for canine RANK ligand
84 <400> SEQUENCE: 2
86 Ala Ala Ser Arg Ser Val Ala Val Ala Phe Leu Gly Leu Gly Leu Gly
87 1               5                   10                  15
90 Gln Val Val Cys Ser Val Ala Leu Phe Leu Tyr Phe Arg Ala Gln Met
91            20                  25                  30
94 Asp Pro Asn Arg Ile Ser Glu Asp Asp Thr His Cys Ile Asn Arg Ile
95         35                  40                  45
98 Phe Lys Leu His Glu Asn Ala Asp Leu Gln Asp Thr Thr Leu Glu Asn
99      50                  55                  60
102 Gln Asp Thr Lys Leu Ile Pro Asp Ser Cys Lys Ser Ile Lys Gln Ala
103 65                  70                  75                  80
106 Phe Arg Ala Ala Val Gln Lys Glu Leu Gln His Ile Val Arg Ser Gln
107                 85                  90                  95
110 His Ile Arg Ala Glu Lys Ala Met Met Glu Gly Ser Trp Leu Glu Met
111             100                 105                 110
114 Ala Arg Arg Gly Lys Thr His Thr Gln Pro Phe Ala His Leu Thr Ile
115             115                 120                 125
118 Asn Ala Thr Asp Ile Pro Ser Gly Ser His Lys Val Ser Leu Ser Ser
119         130                 135                 140
122 Trp Tyr His Asp Arg Gly Trp Ala Lys Ile Ser Asn Met Thr Phe Ser
123 145                 150                 155                 160
126 Asn Gly Lys Leu Ile Val Asn Gln Asp Gly Phe Tyr Phe Leu Tyr Ala
127             165                 170                 175
130 Asn Ile Cys Phe Arg His His Glu Thr Ser Gly Asp Leu Ala Thr Glu
131             180                 185                 190
134 Tyr Leu Gln Leu Met Val Tyr Val Thr Lys Thr Ser Ile Lys Ile Pro
135         195                 200                 205
138 Ser Ser His Thr Leu Met Lys Gly Gly Ser Thr Lys Tyr Trp Ser Gly
139     210                 215                 220
142 Asn Ser Glu Phe His Phe Tyr Ser Ile Asn Val Gly Gly Phe Phe Lys
143 225                 230                 235                 240
146 Leu Arg Ser Gly Glu Glu Ile Ser Ile Glu Val Ser Asn Pro Ser Leu
147             245                 250                 255
150 Leu Asp Pro Asp Gln Asp Ala Thr Tyr Phe Gly Ala Phe Lys Val Leu
151             260                 265                 270
154 Asp Ile Asp
155         275
158 <210> SEQ ID NO: 3
159 <211> LENGTH: 18
160 <212> TYPE: DNA
161 <213> ORGANISM: Artificial Sequence
163 <220> FEATURE:
164 <223> OTHER INFORMATION: T7 primer
166 <400> SEQUENCE: 3
```

RAW SEQUENCE LISTING   DATE: 06/16/2005
PATENT APPLICATION: US/10/537,864   TIME: 10:19:55

Input Set : **A:\AH01646Ka.ST25.txt**
Output Set: **N:\CRF4\06162005\J537864.raw**

```
167 taatacgact cactatag                                         18
170 <210> SEQ ID NO: 4
171 <211> LENGTH: 21
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: RANKL human/AS2 primer
178 <400> SEQUENCE: 4
179 ggtgtgtgag actactaaga g                                     21
182 <210> SEQ ID NO: 5
183 <211> LENGTH: 21
184 <212> TYPE: DNA
185 <213> ORGANISM: Artificial Sequence
187 <220> FEATURE:
188 <223> OTHER INFORMATION: RANKL human/S6 primer
190 <400> SEQUENCE: 5
191 ccatgcgccg cgccagcaga g                                     21
194 <210> SEQ ID NO: 6
195 <211> LENGTH: 20
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence
199 <220> FEATURE:
200 <223> OTHER INFORMATION: RANKL human/AS4 primer
202 <400> SEQUENCE: 6
203 gccaagatct ccaacatgac                                       20
206 <210> SEQ ID NO: 7
207 <211> LENGTH: 22
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: RANKL human/S3 primer
214 <400> SEQUENCE: 7
215 gacacaactc tggagagtca ag                                    22
218 <210> SEQ ID NO: 8
219 <211> LENGTH: 24
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: RANKL dog/AS1 primer
226 <400> SEQUENCE: 8
227 gccactgaca tcccatctgg ttcc                                  24
230 <210> SEQ ID NO: 9
231 <211> LENGTH: 24
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: RANKL dog/AS2 primer
238 <400> SEQUENCE: 9
239 ccaaccatga accttccatc atag                                  24
```

```
242 <210> SEQ ID NO: 10
243 <211> LENGTH: 24
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: RANKL dog/S1 primer
250 <400> SEQUENCE: 10
251 ctatgatgga aggttcatgg ttgg                                24
254 <210> SEQ ID NO: 11
255 <211> LENGTH: 18
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial Sequence
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Sp6 primer
262 <400> SEQUENCE: 11
263 atttaggtga cactatag                                       18
266 <210> SEQ ID NO: 12
267 <211> LENGTH: 24
268 <212> TYPE: DNA
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:
272 <223> OTHER INFORMATION: RANKL dog/S2 primer
274 <400> SEQUENCE: 12
275 gccactgaca tcccatctgg ttcc                                24
278 <210> SEQ ID NO: 13
279 <211> LENGTH: 20
280 <212> TYPE: DNA
281 <213> ORGANISM: Artificial Sequence
283 <220> FEATURE:
284 <223> OTHER INFORMATION: pSPORT1 primer
286 <400> SEQUENCE: 13
287 gtacgtaagc ttggatcctc                                     20
290 <210> SEQ ID NO: 14
291 <211> LENGTH: 23
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
296 <223> OTHER INFORMATION: RANKL dog/AS4 primer
298 <400> SEQUENCE: 14
299 cttgtatcat tgtgggtcat acc                                 23
302 <210> SEQ ID NO: 15
303 <211> LENGTH: 24
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: RANKL dog/AS3 primer
310 <400> SEQUENCE: 15
311 ccagattaga gcaattatgg ttgc                                24
```

VERIFICATION SUMMARY   DATE: 06/16/2005
PATENT APPLICATION: **US/10/537,864**   TIME: 10:19:56

Input Set : **A:\AH01646Ka.ST25.txt**
Output Set: **N:\CRF4\06162005\J537864.raw**

L:10 M:270 C: Current Application Number differs, Replaced Application Number
L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date